

## **Abstract**

The present invention provides a dual-band inverted-F antenna configured for portable electronic devices having wireless communication function. The antenna includes a first planar conductive element and a second planar conductive element. The first planar conductive element, with an L-shaped design, has a feed point for transmitting received signals to the portable electronic devices. The second planar conductive element, a rectangular board, is orthogonal to the first planar conductive element and is connected to the first planar conductive element at a node. The node formally separates the second planar conductive element into two parts to receive two different frequency signals respectively.